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System and method for incrementally maintaining non-distributive aggregate ...

US Pat. 7020649 - Filed Dec 30, 2002 - International Business Machines Corporation

If an AST is 50 automatically refreshed in the same unit of work as the changes

... aggregate functions in material- 60 ized views of relational databases. ...

[APPLICATION] Incremental AST maintenance using work areas

US Pat. 10643644 - Filed Aug 19, 2003

[0006] Automatic Summary Tables (ASTs), which are also known as materialized views

... eg, those only containing distributive aggregate functions. ...

Matching and compensation tests for optimizing correlated subqueries within ...

US Pat. 7167853 - Filed Nov 5, 2002 - International Business Machines Corporation

Condition (2) makes sure that the aggregate functions computed by the subsumer

... M. Urata, "Answering Complex SQL Queries Using Automatic Summary Tables," ...

Incremental maintenance of summary tables with complex grouping expressions

US Pat. 6763352 - Filed Dec 2, 1999 - International Business Machines Corporation

STEP III: Pairing the Delta to the Summary Table After aggregation, ... In this

case, all aggregate functions (with the exception of COUNT()) return NULL, ...

Analyzing, optimizing and rewriting queries using matching and compensation ...

US Pat. 6847962 - Filed Feb 11, 2000 - International Business Machines Corporation

10A (boxes 1001-1003) shows the QGM graph for the QGM graphs for the AST and the

... The appropriate derivations for aggregate functions are listed below. ...

[APPLICATION] Query optimization technique for obtaining improved cardinality estimates ...

US Pat. 10807871 - Filed Mar 24, 2004

In block 200, the Query Optimization System 124 identifies simple, vertical

automatic summary tables (asts). An ast is simple if the query defining the ast ...

[APPLICATION] Method and apparatus for data analysis

US Pat. 10568354 - Filed Sep 24, 2003

Most recently incrementally updating an AST in accordance with a method of updating

AST's that applies to all "aggregate functions" has been proposed. ...

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